## INTERNATIONAL SEARCH REPORT

Int: nal Application No PCT/IT2004/000190

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E04B9/32 G09F G09F13/02 F21W121/00 F21S8/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 E04B F21V G09F F21S Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. X US 4 942 685 A (LIN LING-YUNG) 1 - 3.524 July 1990 (1990-07-24) figures 1,5A,5B column 1, lines 36-50 column 1, lines 59-62 column 3, lines 36-50 Y 4,6 A PATENT ABSTRACTS OF JAPAN 1 - 3.5vol. 1995, no. 01, 28 February 1995 (1995-02-28) -& JP 06 299641 A (MATSUSHITA ELECTRIC WORKS LTD), 25 October 1994 (1994-10-25) abstract figures 1,5 Y 4,6 Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the document defining the general state of the art which is not considered to be of particular relevance invention \*E\* earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed in the art. \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the International search report 6 August 2004 16/08/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Girard, O

## INTERNATIONAL SEARCH REPORT

Int inal Application No
PCT/IT2004/000190

Category °	Citation of degree at with Life.		
Jaiogoly	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 245 (M-1260), 4 June 1992 (1992-06-04) -& JP 04 055546 A (MATSUSHITA ELECTRIC WORKS LTD), 24 February 1992 (1992-02-24) abstract figures 5,8,9G		1-6
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 23, 10 February 2001 (2001-02-10) -& JP 2001 164691 A (HASEKO CORP), 19 June 2001 (2001-06-19) abstract figure 1		1-3,5,6
4	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 12, 25 December 1997 (1997-12-25) -& JP 09 221868 A (MEITETSU SUMISHO KOGYO KK; IKUSU:KK), 26 August 1997 (1997-08-26) abstract figure 13		1,5,6
	US 4 709 308 A (MAKINO KATSUMI) 24 November 1987 (1987-11-24) figure 5 column 4, lines 45-58	·	1,5,6
	GB 2 143 067 A (MONTGOMERY DON MAURICE) 30 January 1985 (1985-01-30) abstract figure 1 page 2, lines 43-45	,	1-3.
	CH 100 112 A (ALBINO VILLANI) 16 July 1923 (1923-07-16) the whole document		1
	continuation of second sheet) (January 2004)		

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Inti nal Application No
PCT/IT2004/000190

5		· · · · · · · · · · · · · · · · · · ·		10171120047000190	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4942685	Α	24-07-1990	NONE		
JP 06299641	Α	25-10-1994	NONE		
JP 04055546	A	24-02-1992	NONE	— — — — — — — — — — — — — — — — — — —	
JP 2001164691	Α	19-06-2001	NONE		
JP 09221868	Α	26-08-1997	NONE		
US 4709308	<b>A</b> :	24-11-1987	JP JP JP CN GB HK KR	1737313 C 4022834 B 62004183 A 86103740 A ,B 2177489 A ,B 48990 A 9005252 Y1	26-02-1993 20-04-1992 10-01-1987 31-12-1986 21-01-1987 29-06-1990
GB 2143067 	Α	30-01-1985	AU AU	550046 B2 1650083 A	27-02-1986 03-01-1985
CH 100112	A	16-07-1923	CH CH	94780 A 103382 A	16-05-1922 16-02-1924